CLAIMS

- 1. An aqueous heat-resistant coating composition comprising:
- (A) an aqueous carboxy-containing acrylic-modified epoxy resin dispersion obtained by neutralizing a carboxy-containing acrylic-modified epoxy resin with a basic compound and dispersing the neutralized resin in an aqueous medium;
 - (B) an inorganic coloring pigment; and
- 10 (C) a rust-preventive pigment.

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- 2. The aqueous heat-resistant coating composition according to claim 1 wherein the carboxy-containing acrylic-modified epoxy resin is obtained by esterifying (a) a bisphenol epoxy resin and (b) a carboxy-containing acrylic resin.
- 3. The aqueous heat-resistant coating composition according to claim 1 wherein the carboxy-containing acrylic-modified epoxy resin is obtained by graft polymerizing onto (a) a bisphenol epoxy resin a monomer mixture comprising a carboxy-containing polymerizable unsaturated monomer.
- 4. The aqueous heat-resistant coating composition according to claim 1 wherein the inorganic coloring pigment (B) is manganese dioxide.
 - 5. The aqueous heat-resistant coating composition according to claim 1 wherein the rust-preventive pigment (C) is an aluminum dihydrogen tripolyphosphate rust-preventive pigment.
 - 6. The aqueous heat-resistant coating composition according to claim 5 wherein the aluminum dihydrogen tripolyphosphate rust-preventive pigment has been surface-treated with magnesium oxide or zinc oxide.
- 7. The aqueous heat-resistant coating composition according to claim 1 wherein the total amount of inorganic coloring pigment (B) and rust-preventive pigment (C) is 5 to 100 parts by weight per 100 parts by weight of aqueous carboxy-containing acrylic-modified epoxy resin dispersion (A), on a solids basis.

- 8. The aqueous heat-resistant coating composition according to claim 1 which further comprises (D) a resol phenolic resin.
- 9. The aqueous heat-resistant coating composition according to claim 8 wherein the resol phenolic resin (D) has a number average molecular weight of 200 to 2,000 and an average of 0.3 to 4.0 methylol groups per benzene nucleus.

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- 10. The aqueous heat-resistant coating composition according to claim 8 wherein the amount of resol phenolic resin (D) is 0.1 to 30 parts by weight per 100 parts by weight of aqueous carboxy-containing acrylic-modified epoxy resin dispersion (A), on a solids basis.
- 11. An application process comprising applying the aqueous heat-resistant coating composition of claim 1 to a metal substrate and then heat-drying to form a heat-resistant dried coating film.
- 12. The process according to claim 11 wherein the heat-drying is performed by electromagnetic induction heating.
- 13. The process according to claim 11 wherein the metal 20 substrate is a disc break part.
 - 14. An application process comprising heating a metal substrate by electromagnetic induction and then applying the aqueous heat-resistant coating composition of claim 1 to the substrate, followed by allowing the residual heat to dry the composition to form a heat-resistant dried coating film.
 - 15. The process according to claim 14 wherein the metal substrate is a disc break part.
 - 16. A coated article comprising a heat-resistant dried coating film formed on a metal substrate by the process of claim 11.
 - 17. The coated article according to claim 16 wherein the metal substrate is a disc break part.
 - 18. A coated article comprising a heat-resistant dried coating film formed on a metal substrate by the process of claim 14.

19. The coated article according to claim 18 wherein the metal substrate is a disc break part.